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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,729	07/10/2003	Daniel Raymond Pyles	J6723(C)	2755
201	7590	01/26/2005	EXAMINER	
UNILEVER INTELLECTUAL PROPERTY GROUP 700 SYLVAN AVENUE, BLDG C2 SOUTH ENGLEWOOD CLIFFS, NJ 07632-3100			VANIK, DAVID L	
			ART UNIT	PAPER NUMBER
			1615	

DATE MAILED: 01/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/616,729

**Applicant(s)**

PYLES, DANIEL RAYMOND

**Examiner**

David L. Vanik

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-21 are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-11, 13-21, drawn to a method for treating hair, classified in class 424, subclass 70.1.
- II. Claims 12-13, drawn to a product or kit for treating hair, classified in class 424, subclass 70.1.

2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are related as a kit for treating hair and a method of treating hair.

3. Searching the inventions of Groups I – II together would impose a search burden on the examiner. In the instant case, the search of a kit for treating hair and a method of treating hair would impose a search burden on the examiner.

4. This application contains claims directed to the following patentably distinct species of the claimed invention: (a) the thermochromatic mutable dyes as set forth in

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claim 4; (b) the mutable dyes as described in claim 19; (c) and fabric material as described in claims 5, 6, and 7.

a) thermochromatic mutable dyes

3,3'-dimethoxyfluoran (yellow); 3-chloro-6-phenylaminofluoran (orange); 3-diethylamino-6-methyl-7-chlorofluoran (vermilion); 3-diethyl-7,8-benzofluoran (pink); Crystal Violet lactone (blue); 3,3', 3''-tris(p-dimethylaminophenyl) phthalide (purplish blue); Malachite Green lactone (green); 3,3'-bis-(p-dimethylaminophenyl) phthalide (green); 3-diethylamino-6-methyl-7-phenylaminofluoran (black); indolyl phthalides; spiopyrans; coumarins; 3,6-dimethoxyfluoran; 3,6-dibutoxyfluoran; 3-diethylamino-6,8-dimethylfluoran; 3-chloro-6-phenylaminofluoran; 3-diethylamino-6-methyl-7-chlorofluoran; 3-diethylamino 7,8-benzofluoran; 2-anilino-3-methyl-6-diethylaminofluoran; 3,3',3''-tris(p-dimethylaminophenyl) phthalide; 3,3'-bis(p-dimethylaminophenyl) phthalide; 3-diethylamino-7-phenylaminofluoran; 3,3-bis(p-diethylaminophenyl)-6-dimethylaminophthalide; 3-(4-diethylaminophenyl)-3-(1-ethyl-2-methylindol-3-yl) phthalide; 3-(4-diethylamino-2-methyl)phenyl-3-(1,2-dimethylindol-3-yl) phthalide; 2'-(2-chloroanilino)-6'-dibutylaminospiro-[phthalido-3,9'-xanthene] and mixtures thereof.

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## b) mutable dyes

1,3,3-trimethylspiro[indoline-2,3'-(3H)naphtho(2,1-b)(1,4)-oxazine]<sub>7</sub>; 6'-indolino-1,3,3-trimethylspiro[indoline-2,3'-(3H)naphtho(2,1-b)(1,4)-oxazine]<sub>7</sub>; 5-chloro-1,3,3-trimethylspiro[indoline-2,3'-(3H)naphtho(2,1-b)(1,4)-oxazine]<sub>7</sub>; 6'-piperidino-1,3,3-trimethylspiro[indoline-2,3'-(3H)naphtho(2,1-b)(1,4)-oxazine]<sub>7</sub>; -benzyl-3,3-dimethylspiro[indoline-2,3'-(3H)naphtho(2,1-b)(1,4)-oxazine]<sub>7</sub>; 1,3,5,6-tetramethyl-3-ethylspiro[indoline-2,3'-(3H)naphtho(2,1-b)(1,4)-oxazine]<sub>7</sub>; 1,3,3,5,6-pentamethylspiro[indoline-2,3'-(3H)naphtho(2,1-b)(1,4)-oxazine]<sub>7</sub>; 1,3,5,6-tetramethyl-3-ethylspiro[indoline-2,3'-(3H)pyrido(3,2-f)(1,4)-benz oxazine]<sub>7</sub>; 1,3',3'-trimethylspiro(2H-2-benzopyran-2,2'-indoline)<sub>7</sub>; 1,3,3-triphenylspiro[indoline 2,3'-(3H)naphtho(2,1-b)pyran]<sub>7</sub>; 1-(2,3,4,5,6-pentamethylbenzyl)-3,3- dimethylspiro[indoline-2,3'-(3H)naphtho(2,1-b)pyran]<sub>7</sub>; 1-(2-nitrobenzyl)-3,3- dimethylspiro[indoline-2,3'-(3H)naphtho(2,1-b)pyran] <sub>7</sub>; 2,2-diphenylnaphtho(2,1-b) pyran<sub>7</sub>; 2,2-di(p-methoxyphenyl)naphtho(2,1-b)pyran<sub>7</sub>; 2,5-dimethylfuryltrimethylfulgide<sub>7</sub>; 2-methyl-5-chlorotrimethylfulgide<sub>7</sub>; spiro[2H- chromen-2,2'- tricyclo[3.3.1.1.sup.3.7 ]decane]<sub>7</sub>; spiro[2H-naphtho[1,2-b]pyran-2,2'- tricyclo[3.3.1.1.sup.3.7 ]decane]<sub>7</sub>; 5,7-dimethylspiro[2H-chromene-2,2' tricyclo[3.3.1.1.sup.3.7 ]decane]<sub>7</sub>; 6-(4-methoxyphenyl)-9-methoxyspiro[2H naphtho[1,2-b]pyran-2,2'-tricyclo[ 3.3.1.1.sup.3.7 ]decane]<sub>7</sub>; 6- chlorospiro[2H- naphtho[1,2-b]pyran-2,2'-tricyclo[3.3.1.1.sup.3.7 ] decane and mixtures thereof.

c) fabric material:

i.

woven substrates,  
nonwoven substrates, hydroentangled substrates, air entangled substrates, natural sponges,  
synthetic sponges, and polymeric netted sponges and mixtures thereof.

ii.

silk fiber, wool fiber,  
camel hair, wood pulp fiber, cotton fiber, hemp fiber, jute fiber, flax fiber, and mixtures

iii.

cellulose;  
polyamides; polyesters; polypropylene; polyethylene; polyvinyl acetate; polyurethane

5. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 3 and 10 are generic.

6. If applicant selects invention I, one species from the (a) the thermochromatic mutable dyes group as set forth in claim 4; (b) the mutable dyes group as described in claim 19; (c) and fabric material group as described in claims 5, 6, and 7 must be chosen to be fully responsive. With respect to the

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**fabric material group (c), either set i, ii, or iii must be chosen to be considered fully responsive.**

7. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

8. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

9. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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10. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

11. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

12. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

13. Due to the complexity of the action, examiner submitted the Election Restriction in writing in lieu of calling applicant's attorney.

### ***Correspondence***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Vanik whose telephone number is (571) 272-3104. The examiner can normally be reached on Monday-Friday 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DV

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1/21/05

*[Handwritten signature]*  
THURMAN K. PAGE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1600